ABSTRACT

A method for modeling the output waveform of a cell driving a resistance-capacitance network includes

5 multiple effective capacitances. A method of calculating Thevenin parameters includes the steps of (a) initializing estimates of effective capacitances Ceff1 and Ceff2, of a switching threshold delay t0, and of a slope delay deltat; (b) solving ramp response equations for t0 and deltat as a 10 function of Ceff1 and Ceff2; (c) comparing the estimates of t0 and deltat with solutions for t0 and deltat found in step (b); and (d) replacing the estimates of t0 and deltat with the solutions for t0 and deltat if the solutions for t0 and deltat.